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Changes concurrent with orthodontic treatment when maxillary expansion is a primary goal (Ladner and Muhl). 1995;108:184-93
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Long-term stability of rapid palatal expander treatment and edgewise mechanotherapy (Moussa et al). 1995;108:478-88

Patient compliance
How to deal with the drop-out in clinical follow-up studies: results of a long-term follow-up study of orthodontically treated patients (Kahl et al). 1995;108:415-20

Periodontal ligament
A new experimental model for studying the response of periodontal ligament cells to hydrostatic pressure (Yousefian et al). 1995;108:402-9

Periodontium
Pulp and periodontal healing, root development and root resorption subsequent to transplantation and orthodontic rotation: a long-term study of autotransplanted premolars (Paulsen et al). 1995;108:630-40

Periosteum
Periosteal migration in the growing mandible: an animal model (Covell and Herring). 1995;108:22-9

Pharynx
A study on the pharyngeal size in different skeletal patterns (Ceylan and Oktay). 1995;108:69-75

Phosphates
Plasticity of craniomandibular muscle function: ^{31}P magnetic resonance spectroscopy of the rabbit masseter muscle (Chang et al). 1995;108:168-79

Phosphoric acid
Effect of reduction of phosphoric acid concentration on the shear bond strength of brackets (Carstensen). 1995;108:274-7
Scanning electron microscopic study and shear bond strength measurement with 5% and 37% phosphoric acid (Bhad and Hazarey). 1995;108:410-4

Photogrammetry
A computer assisted photogrammetric analysis of soft tissue changes after orthodontic treatment. Part II: results (Cummins et al). 1995;108:38-47

Photography
Changes in facial dimensions assessed from lateral and frontal photographs. Part II—results and conclusions (Bishara et al). 1995;108:489-99
Changes in facial dimensions assessed from lateral and frontal photographs. Part I—methodology (Bishara et al). 1995;108:389-93

Pliers; *see* **Equipment and supplies**

Point/counterpoint
Point/counterpoint. 1995;108:215-7, 560-1

Polycrystalline alumina; *see* **Ceramics**

Polymerization
Polymerization efficiency of chemically cured and visible light-cured orthodontic adhesives: degree of cure (Eliades et al). 1995;108:294-301

Popovich, Frank
Frank Popovich 1923-1995. 1995;108:442 (In memoriam)

Porcelain; *see* **Ceramics**

Posteroanterior cephalometry; *see* **Cephalometry**

Preactivation
The centered T-loop—a new way of preactivation (Hoenigl et al). 1995;108:149-53

Premolar
Pulp and periodontal healing, root development and root resorption subsequent to transplantation and orthodontic rotation: a long-term study of autotransplanted premolars (Paulsen et al). 1995;108:630-40
Smile esthetics after orthodontic treatment with and without extraction of four first premolars (Johnson and Smith). 1995;108:162-7

Prenatal development
Prenatal growth of the human mandibular condylar cartilage (Berraquero et al). 1995;108:194-200

Prostaglandins
The effects of exogenous prostaglandins on orthodontic tooth movement in rats (Leiker et al). 1995;108:380-8
Influence of indomethacin on bone turnover related to orthodontic tooth movement in miniature pigs (Giunta et al). 1995;108:361-6

Psychology
Impact of orthodontics on the psychologic profile of adult patients: a prospective study (Varela and García-Camba). 1995;108:142-8

Publications
Can a learned treatise support substandard care? (Jerrold). 1995;108:448-9 (Litigation/legis. update)

Pulp; *see* **Dental pulp**

R

Radiography
A radiographic comparision of apical root resorption after orthodontic treatment with the edgewise and Speed appliances (Blake et al). 1995;108:76-84

Record archiving
Computerized archiving of records (Abelson). 1995;108:562-4 (Ortho bytes)

Renting space
When the court turns its back (Jerrold). 1995;108:668 (Litigation/legis. update)

Reporting systems
A special kind of computerized reporting system (Bellavia and Schulhof). 1995;108:663-7 (Ortho bytes)

Resins
Bond strengths and remnant adhesive resin on debonding for orthodontic bonding techniques (Sinha et al). 1995;108:302-7
Fluoride release from four visible light-cured orthodontic adhesive resins (Wiltshire and Janse van Rensburg). 1995;108:278-83

Retainers
Bonded orthodontic retainers: a review (Bearn). 1995;108:207-13 (Review article)
Oral lesions caused by an orthodontic retainer: a case report (Bishara). 1995;108:1157 (Clin. corner)

Review article
Review article. 1995;108:207-13

Reviews
Reviews. 1995;108:110-3, 227, 338-9, 450-3, 567-9, 669

Risk factors
Risk factors for apical root resorption of maxillary anterior teeth in adult orthodontic patients (Mirabella and Årtun). 1995;108:48-55

Root resorption
Pulp and periodontal healing, root development and root resorption subsequent to transplantation and orthodontic rotation: a long-term study of autotransplanted premolars (Paulsen et al). 1995;108:630-40
A radiographic comparision of apical root resorption after orthodontic treatment with the edgewise and Speed appliances (Blake et al). 1995;108:76-84
Risk factors for apical root resorption of maxillary anterior teeth in adult orthodontic patients (Mirabella and Årtun). 1995;108:48-55

Rosenstein, Sheldon William
Sheldon William Rosenstein (Graber). 1995;108:661-2 (Vignette)

S

Scanning electron microscopy; *see* **Microscopy, electron, scanning**

Second molar; *see* **Molar**

Segmented arch treatment
Rationale of the segmented approach to orthodontic treatment (Braun and Marcotte). 1995;108:1-8

Self-concept
Impact of orthodontics on the psychologic profile of adult patients: a prospective study (Varela and García-Camba). 1995;108:142-8

Shear strength
Effect of reduction of phosphoric acid concentration on the shear bond strength of brackets (Carstensen). 1995;108:274-7
In vitro shearing force testing of the Australian zirconia-based ceramic Begg bracket (Kittipibul and Godfrey). 1995;108:308-15
Scanning electron microscopic study and shear bond strength measurement with 5% and 37% phosphoric acid (Bhad and Hazarey). 1995;108:410-4
24-hour shear bond strength of metal orthodontic brackets bonded to porcelain using various adhesion promoters (Major et al). 1995;108:322-9

Skull, growth and development
Craniofacial structure and soft tissue profile in patients with severe hypodontia (øgaard and Krogstad). 1995;108:472-7

Smile esthetics; *see* **Esthetics**

Smith, Richard A.
Richard A. Smith, 1903-1995. 1995;108:333 (In memoriam)

Soft tissue
A computer assisted photogrammetric analysis of soft tissue changes after orthodontic treatment. Part II: results (Cummins et al). 1995;108:38-47
Craniofacial structure and soft tissue profile in patients with severe hypodontia (Øgaard and Krogstad). 1995;108:472-7
Soft tissue profile: a survey of African-American preference (Polk et al). 1995;108:90-103 (Special article)

Software
Computerized archiving of records (Abelson). 1995;108:562-4 (Ortho bytes)

Electronic mail on the Internet (Regennitter and Johnson). 1995;108:219-22 (Ortho bytes)
Holograms in orthodontics: a universal system for the production, development, and illumination of holograms for the storage and analysis of dental casts (Romeo). 1995;108: 443-7 (Ortho bytes)
Networking for the novice (Mednick). 1995;108:105-8 (Ortho bytes)
Ortho bytes (Abelson). 1995;108:334-7 (Ortho bytes)
A special kind of computerized reporting system (Bellavia and Schulhof). 1995;108:663-7 (Ortho bytes)

Soldering
Oral lesions caused by an orthodontic retainer: a case report (Bishara). 1995;108:1157 (Clin. corner)

Space closure
The centered T-loop—a new way of preactivation (Hoenigl et al). 1995;108:149-53
Gingival invagination area after space closure: a histologic study (Wehrbein et al). 1995;108:593-8

Special articles
Special articles. 1995;108:90-101, 231-41, 428-41, 547-9, 571-4

Speed appliance
A radiographic comparision of apical root resorption after orthodontic treatment with the edgewise and Speed appliances (Blake et al). 1995;108:76-84

Standard of care
Can a learned treatise support substandard care? (Jerrold). 1995;108:448-9 (Litigation/legis. update)
Duty to follow up on recommended care (Jerrold). 1995;108: 565-6 (Litigation/legis. update)

Suprahyoid muscle
Changes in mandibular rotation after muscular resection: experimental study in rats (Navarro et al). 1995;108: 367-79

T

T-loop
The centered T-loop—a new way of preactivation (Hoenigl et al). 1995;108:149-53

Temporal muscle
Changes in mandibular rotation after muscular resection: experimental study in rats (Navarro et al). 1995;108: 367-79

Tensile strength
The effect on the tensile bond strength of orthodontic brackets of titanium tetrafluoride (TiF_4) application after acid etching (Büyükyilmaz et al). 1995;108:256-61

Timing of treatment
Efficient orthodontic treatment timing (Viazis). 1995;108: 560-1 (Counterpoint)
One-phase versus two-phase treatment (Gianelly). 1995;108: 556-9 (Special article)

Titanium tetrafluoride
The effect on the tensile bond strength of orthodontic brackets of titanium tetrafluoride (TiF_4) application after acid etching (Büyükyilmaz et al). 1995;108:256-61

Tooth, growth and development
Etiologic aspects and orthodontic treatment of unilateral localized arrested tooth development combined with hearing loss (Bang et al). 1995;108:154-61

Tooth, impacted
The surgical uprighting of mandibular second molars (Pogrel). 1995;108:180-3

Tooth crowding
Changes in tooth size–arch length relationship from the deciduous to the permanent dentition: a longitudinal study (Bishara et al). 1995;108:607-13

Tooth extraction
The centered T-loop—a new way of preactivation (Hoenigl et al). 1995;108:149-53
A comparison of one-stage and two-stage nonextraction alternatives in matched Class II samples (Livieratos and Johnston). 1995;108:118-31
Extraction of a mandibular incisor in a Class I malocclusion (Grob). 1995;108:533-41 (Case rep.)
Smile esthetics after orthodontic treatment with and without extraction of four first premolars (Johnson and Smith). 1995;108:162-7
Treatment of a patient with a mutilated Class II, Division 1 malocclusion and a dolichofacial skeletal pattern (McNew). 1995;108:542-6 (Case rep.)

Tooth movement
The effects of exogenous prostaglandins on orthodontic tooth movement in rats (Leiker et al). 1995;108:380-8
Equilibrium clarified (Shellhart). 1995;108:394-401
Influence of indomethacin on bone turnover related to orthodontic tooth movement in miniature pigs (Giunta et al). 1995;108:361-6
Multiflex versus superelastic: a randomized clinical trial of the tooth alignment ability of initial arch wires (West et al). 1995;108:464-71
Orthodontic forces increase tumor necrosis factor α in the human gingival sulcus (Lowney et al). 1995;108:519-24

Tooth root
Pulp and periodontal healing, root development and root resorption subsequent to transplantation and orthodontic rotation: a long-term study of autotransplanted premolars (Paulsen et al). 1995;108:630-40

Tooth size
Changes in tooth size–arch length relationship from the deciduous to the permanent dentition: a longitudinal study (Bishara et al). 1995;108:607-13

Transplantation
Pulp and periodontal healing, root development and root resorption subsequent to transplantation and orthodontic rotation: a long-term study of autotransplanted premolars (Paulsen et al). 1995;108:630-40

Treatise; *see* **Publications**

Tumor necrosis factor
Orthodontic forces increase tumor necrosis factor α in the human gingival sulcus (Lowney et al). 1995;108:519-24

Turbinates
Frequency of radiopaque turbinate bones on lateral cephalometric radiographs (Wyche et al). 1995;108:56-61

U

Ultrasonics
Debonding orthodontic ceramic brackets by ultrasonic instrumentation (Boyer et al). 1995;108:262-6

V

Vertical dimension
Vertical dimension and therapeutic choices (Ortial). 1995; 108:432-41 (Special article)

Vignettes
Vignettes. 1995;108:102-3, 214, 661-2

Visible light-curing; *see* **Light-curing**

W

Wires; *see* **Orthodontic wires**

Z

Zirconia
In vitro shearing force testing of the Australian zirconia-based ceramic Begg bracket (Kittipibul and Godfrey). 1995;108: 308-15